Klebelsbergite

 \odot 2001-2005 Mineral Data Publishing, version 1

Crystal Data: Orthorhombic. *Point Group: mm2.* Crystals are platy, flattened on {010}, or acicular, elongated along [001], to 1 cm; rarely isolated, typically in bladed radial to tufted aggregates.

Physical Properties: Tenacity: Brittle. Hardness = n.d. VHN = 200 (10 g load). D(meas.) = 4.62(6) D(calc.) = 4.67-4.69 May be weakly magnetic if iron is present as an impurity.

Optical Properties: Semitransparent. *Color:* Colorless, pale yellow, yellow-orange, pink. Streak: White to yellow. *Luster:* Vitreous to silky. *Optical Class:* Biaxial (–). *Orientation:* X = b; Y = c; Z = a. $\alpha = n.d$. $\beta = \sim 1.95$ $\gamma = n.d$. $2V(meas.) = \sim 70^{\circ}$

Cell Data: Space Group: $Pc2_1b$. a = 11.279(2) b = 14.909(3) c = 5.7648(6) Z = 4

X-ray Powder Pattern: Baia Sprie, Romania. 3.131 (vs), 6.22 (s), 3.892 (s), 3.545 (s), 3.150 (s), 2.830 (s), 2.435 (s)

Chemistry:		(1)	(2)
	SO_3	8.0	11.75
	Sb_2O_5	84.8	85.60
	Fe_2O_3	0.7	
	H ₂ O		2.65
	Total		100.00

(1) Baia Sprie, Romania; by electron microprobe, partial analysis, here converted from an elemental analysis, valence determination of Fe by microchemistry found $\text{Fe}^{3+} \gg \text{Fe}^{2+}$, $(\text{OH})^{1-}$ determined present by IR. (2) $\text{Sb}_4\text{O}_4(\text{SO}_4)(\text{OH})_2$.

Occurrence: An alteration product of stibnite in antimony deposits.

Association: Stibnite, valentinite, cervantite, kermesite, stibiconite, coquandite, peretaite, onoratoite, cetineite.

Distribution: In Romania, from Baia Sprie (Felsőbánya). In Italy, in Tuscany, at the Cetine mine, 20 km southwest of Siena; in the Pereta mine, Scansano; and at Micciano, near Larderello.

Name: Honoring Kunó Klebelsberg (1875–1932), Hungarian Minister of Education.

Type Material: Hungarian Natural History Museum, Budapest, Hungary, A85135; National Museum of Natural History, Washington, D.C., USA, R6365, B12631, B12640, B12647, 137949.